

ENGINEERING CHANGE NOTICE
DART AEROSPACE LTD

Date:	19.06.17	Job No.:	SE19-591-04	ADR Yes/No:	Y	ADR Date:	19.06.17	ECN #:	19- 773
Product No.:	D350-607	Created By:	PM	Approved By:	<i>[Signature]</i>				
Product Name:	Alternate Clamp Kit	Checked By:	VS						

Reason for Change:

Operator request for simultaneous installation of D350-607 Basket and D360-591 Float Compatible Step.

Documents Released:

DSI 9821 REV. A
D3759 BUSHING REV. B
D5716 CLAMP REV. A
MDL-D350-607 REV. V

IF APPLICABLE: NCR: _____ PAR: _____ CAR: _____ CIR: _____ URF: _____

PAPERWORK UPDATE



PARTS MUST COMPLY



PREVIOUS PARTS SATISFACTORY



#	Quality Assurance / Customer Support Actions	Reqd	Resp	Notes	Complete
1	Notify Previous Customers	Y	MB	Notify customer who requested this installation	
2	Notify Airbus	N			
3	Notify Leonardo	N			
4	Manufacturing Licensing Agreement Update	N			

#	Engineering Actions	Reqd	Resp	Notes	Complete
5	Required Documents/Drawings/Item ID's Under Review (URF)	N			
6	Update Master Document List (MDL)	Y	PM	MDL-D350-607 Rev. V	<i>[Signature]</i> 19.03.13
7	Update Document Record (DR)	N			
8	Update Product Compatability Matrix	N			
9	Notify TC / FAA of Change (eg. ICA, 8110-3)	N			
10					

#	Document Control Actions	Reqd	Resp	Notes	Complete
11	Move / Update Electronic Files / Design Journal	Y	MG		<i>[Signature]</i> 19.06.19
12	Update Product Specification Files (Bluefiles) <i>(Conto)</i>	Y	MG	Add DSI 9821 Rev. A	<i>[Signature]</i> 19.06.19
13	Update Approved/Preliminary Dwg PDF Files	Y	MG	Add D5716 Rev. A, D3759 Rev. B	<i>[Signature]</i> 19.06.19
14	Update Product Development Summary (STC applications)	N			
15	Update QSI 021 (TC/FAA STC) and/or STC Approval List	N			
16	Create/Update Parts / STC Database	Y	MG		<i>[Signature]</i> 19.06.19
17	Update / Verify Authorized Release Certificate Database	Y	MG	For DSI 9821-011	<i>[Signature]</i> 19.06.19
18	Create / Update Change Record Form / Item Card Database	Y	MG	DSI 9821-011 @ CHG 001	<i>[Signature]</i> 19.06.19
19	Create / Update Packaging Process Plan (PPP)	Y	MG	For DSI 9821-011	<i>[Signature]</i> 19.06.19
20	Red Decals required on Packaging Process Plan (PPP)?	N			
21	Update Controlled Supplier Documents (Qpulse) Database	N			
22	Update Grey Project Binder / Electronic Project Folder	Y	MG		<i>[Signature]</i> 19.06.19
23	Update D-Part / M-Drawing / DSI / DEO Master Binders	Y	MG		<i>[Signature]</i> 19.06.19
24	Update "Royalty Paid to" attribute (Parts sold under Dart USA STC's)	N			
25					

Description / Action:

Create BOMS/Routes for DSI 9821-011 Kit.
Update BOMS/Routes for D3759 Rev. B.

who's made
19.06.25

ECN Verified & Complete: _____ Date: _____

Linda Lacelle

From: Jean-Luc Menard
Sent: Tuesday, June 25, 2019 10:34 AM
To: Linda Lacelle
Cc: Victoria Seib
Subject: RE: D350-607 QR Baskets Now Compatible with D350-591-411/-412 Float Steps

Purchased as an option, not to be added to every kit as per Victoria.
JL

From: Linda Lacelle <llacelle@dartaero.com>
Sent: Tuesday, June 25, 2019 9:06 AM
To: Jean-Luc Menard <jmenard@dartaero.com>
Subject: RE: D350-607 QR Baskets Now Compatible with D350-591-411/-412 Float Steps

So??

From: Linda Lacelle
Sent: Friday, June 21, 2019 9:10 AM
To: Jean-Luc Menard <jmenard@dartaero.com>
Subject: RE: D350-607 QR Baskets Now Compatible with D350-591-411/-412 Float Steps

According to the below- we are NOT adding these to kits in stock...??

From: Jean-Luc Menard <jmenard@dartaero.com>
Sent: Friday, June 21, 2019 8:56 AM
To: Simon Langlois <slanglois@dartaero.com>; David Shepherd <dshepherd@dartaero.com>
Cc: Michael Lee <mlee1@dartaero.com>; David Duval <dduval@dartaero.com>; Ryan Williamson <rwilliamson@dartaero.com>; Linda Lacelle <llacelle@dartaero.com>
Subject: RE: D350-607 QR Baskets Now Compatible with D350-591-411/-412 Float Steps

Hi Simon,
4 weeks from now.
JL

From: Simon Langlois <slanglois@dartaero.com>

Sent: Friday, June 21, 2019 8:29 AM

To: David Shepherd <dshepherd@dartaero.com>

Cc: Jean-Luc Menard <jmenard@dartaero.com>; Michael Lee <mlee1@dartaero.com>; David Duval <dduval@dartaero.com>; Ryan Williamson <rwilliamson@dartaero.com>

Subject: Re: D350-607 QR Baskets Now Compatible with D350-591-411/-412 Float Steps

Hi David,

Sounds good. Sorry I guess my attention is on large projects and still being split between R&D and M&A... I'll be more careful.

I think it would be wise to have a monthly or quarterly DSI/Product Improvement EIS review with Program, Sales and CS if that makes sense? I know we have ECNs, but it's not the right way, in my opinion, to ensure proper alignment, commercialization of DSI/sustaining engineering \$ un order to gets the ROI it deserves.

I will price this kit and advise Sales today.

@JL: When can we start shipping?

@Mike: Let's talk about this initiative when you have a chance

Thanks,
Simon

Sent from my iPhone

On Jun 21, 2019, at 12:21 AM, David Shepherd <dshepherd@dartaero.com> wrote:

Simon,

From my point of view, we've been discussing the development of this DSI at the Weekly Canadian Product Development Meeting for several months. But I would estimate that we develop 20-30 of these types of kits every year through Sustaining Engineering, so I could see why it would be easy for something like this to get lost in the shuffle.

My opinion is that we should be putting a price on this kit and attempting to sell it separately as a \$300 to \$400 upgrade kit for the customers who want to install Dart baskets with Dart float steps, which I believe is a limited market since this wasn't even identified as a required compatibility when we developed the D350-591-411/-412 float steps in the first place. I don't think we should be giving these brackets away for free with every basket or float step that we sell.

Regards,

David

From: Jean-Luc Menard <jmenard@dartaero.com>

Sent: June 20, 2019 11:18 AM

To: Simon Langlois <slanglois@dartaero.com>; David Shepherd <dshepherd@dartaero.com>; Michael Lee <mlee1@dartaero.com>; David Duval <dduval@dartaero.com>

Cc: Ryan Williamson <rwilliamson@dartaero.com>

Subject: RE: D350-607 QR Baskets Now Compatible with D350-591-411/-412 Float Steps

Hi Simon,

From David D

DSI 9821-011 in Plex is at \$110.00

JL

From: Simon Langlois <slanglois@dartaero.com>

Sent: Wednesday, June 19, 2019 2:40 PM

To: David Shepherd <dshepherd@dartaero.com>; Michael Lee <mlee1@dartaero.com>; David Duval <dduval@dartaero.com>; Jean-Luc Menard <jmenard@dartaero.com>

Cc: Ryan Williamson <rwilliamson@dartaero.com>

Subject: RE: D350-607 QR Baskets Now Compatible with D350-591-411/-412 Float Steps

Hi David,

That's great thanks. Funny enough I was not aware you guys were pursuing this initiative... I have updated the D350-591-41X Steps web page to reflect that addition. Now when it comes to "DSI side projects" like that can we put a process in place with Program to flag those in order to plan the EIS, price them properly, market them and raise awareness properly? Otherwise, maybe I'm wrong, but I feel like those DSI will die in the catalog with no one knowing about them. Sorry for my ignorance on DSI, but it seems confusing.

@All:

- What is the plan? Do we offer the DSI free of charge as a replacement for the std clamp kit for new orders only?
- Or, do we sell the DSI separately for new and retrofit orders?
- How will the DSI be treated from Sale Order/Work Order point of view?

@Mike: What process would you recommend?

@JL: Please provide the RC for the DSI9821-011 in order to price it

Thank you,
Simon

SIMON LANGLOIS

Product Strategy & Business Development Manager

DART AEROSPACE

M 1 514 771-3271

From: David Shepherd <dshepherd@dartaero.com>

Sent: Wednesday, June 19, 2019 10:32 AM

To: Steve Ghaleb <sghaleb@dartaero.com>; Richard Plourde <rplourde@dartaero.com>; Adrien Dillard <adillard@dartaero.com>; Scott Simpson <ssimpson@dartaero.com>; Caitlin Crooks <ccrooks@dartaero.com>; Lacey Cantin <lcantin@dartaero.com>; Wesley Reid <wreid@dartaero.com>; Simon Langlois <slanglois@dartaero.com>; Marc Bellavance <mbellavance@dartaero.com>; Sian Willems <swillems@dartaero.com>; Mike DiDomenico <mdidomenico@dartaero.com>; Jackson Lin <jlin@dartaero.com>; Jose Miguel Fernandez-Busto <jmiguel@dartaero.com>

Cc: Michael Lee <mlee1@dartaero.com>; Victoria Seib <vseib@dartaero.com>; Paul Mechem <pmechem@dartaero.com>; Steven Drouin <sdrouin@dartaero.com>; Ryan Williamson <rwilliamson@dartaero.com>; Michelle GagnonDonovan <mgagnondonovan@dartaero.com>

Subject: D350-607 QR Baskets Now Compatible with D350-591-411/-412 Float Steps

All,

When we released the new D350-591-411/-412 Float Steps which are compatible with Dart Floats, it was determined that it would be nice if the D350-591-411/-412 Floats Steps were also compatible with the Dart D350-607 QR Baskets so that operators didn't have to change the steps when they converted from Float Operations to Basket Operations. Although this was not identified as an initial requirement, a Sustaining Engineering Project was created to make these kits compatible.

We have just released DSI 9821 (attached), which introduces the DSI9821-011 Alternate Clamp Kit that customers can now procure if they want to install the D350-591-411/-412 Float Steps with the Dart D350-607 QR Baskets. I have also attached a couple of photos which shows the DSI9821-011 Alternate Clamp Kit in action. Thanks to Paul, Victoria, and Steve Drouin for their efforts to sort out this compatibility issue.

Mike,

Michelle should receive DSI 9821 and corresponding ECN by Fedex in Calgary today along with the D130-1048 Paperwork Updates. Please update my Priorities List accordingly.

Regards,
David